


**CONTROL PANEL**

Make Datakom  
Model D100 MK2

The D100 MK2 is an Auto Start Control Module for

all the times. This module can either be programmed using the front panel or by using the Datakom Rainbow plus PC software.

**Metering and Alarm indications:**

- Generator frequency
- Underspeed, Overspeed
- Generator volts (L-L, L-N)
- Generator current
- Engine oil pressure
- Engine coolant temperature
- Fuel level (Warning or shutdown) - Optional
- Hours run counter
- Battery volts
- Fail to start/stop
- Emergency stop
- Failed to reach loading voltage/frequency
- Charge fail
- Loss of magnetic pick-up signal - Optional
- Low DC voltage
- CAN diagnostics and CAN fail/error

**GENERATING SET MODEL (EY275)**

Output Ratings	Prime	Standby
380-415 V, 3 ph, 50 Hz, 1500 rpm	300 KVA	330 KVA
	240 KW	264 KW

Ratings at 0.8 Power Factor

**ENGINE / TECHNICAL DATA**

Engine Make	YTO	Make	YANAN
Engine Model	YM6S4LF-D	Model	SLC314D
Governing Type	Electronic	No. of bearings	1
Number of Cylinders	6	Insulation class	H
Cylinder Arrangement	Vertical in line	Total Harmonic Content	<3%
Bore and Stroke mm	126x130	Wires	6
Displacement / Cubic Capacity litres	9.726	Ingress Protection	IP22
Induction System	Turbo Charger	Excitation System	SHUNT
Cycle	4 stroke	Winding Pitch	2/3 (wdg 3)
Combustion System	Direct Injection	AVR Model	AS440
DC Voltage	24	Overspeed	2250 mn <sup>-1</sup>
Rotation	Anti-clockwise, viewed on flywheel	Voltage Regulation (steady)	±1%
Cooling System	Water - cooled	Short Circuit Capacity	-
<b>Engine Speed</b>	<b>1500rpm</b>	<i>AREP Excitation System Available as Optional.</i>	

Engine Power kWm	255
Fuel Consumption @ 50% load L/hr	30.94
@ 75% load L/hr	46.41
@ 100% load L/hr	61.88

Fuel Tank Capacity: litres 860.37

**DIMENSIONS WITH CANOPY**

Length mm	3973
Width mm	1400
Height mm	2000



### RATINGS DEFINITION

#### Prime Power

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. 10% overload power is available for 1 hour in 12 hours continuous operation.

#### Standby Power

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings.

Output ratings are presented at 25°C air inlet temperature, barometric pressure 100 kPa, relative humidity 30%. This generating set is designed to

humidity (up to 99%) and higher altitudes.

De-ration may apply, please consult your dealer for specific site ratings.

Genset models.

### OPTIONS

- Additional protection alarms and shutdowns
- Water fuel separator
- Water jacket heater
- Battery charger

### ACCESSORIES

- Genuine spare parts
- Load banks
- Auxiliary fuel tanks
- Manual & automatic transfer switches

## STANDARD SPECIFICATIONS

### 1. ENGINE

engine.

### 2. ENGINE FILTRATION SYSTEM

- Air filter
- Fuel filter
- Full flow lube oil filter

All filters have replaceable elements.

### 3. COOLING RADIATOR

for de-ration factors)

### 4. EXHAUST SYSTEM

Heavy duty Industrial Exhaust Silencer

### 5. CIRCUIT BREAKER TYPE

Legrand 3 pole MCB. (4 pole is optional)

### 6. FUEL SYSTEM

the Engine and drain plug.

### 7. ALTERNATOR

#### 7.1 INSULATION SYSTEM

The insulation system is Class H

impregnated with a special polyester resin. • Heavy coat of condensation.

#### 7.2 AUTOMATIC VOLTAGE REGULATOR

trim pot incorporated on the AVR.

#### 7.3 MOTOR STARTING

when AREP option is fitted.

#### 8. MOUNTING ARRANGEMENT

##### 8.1 BASE FRAME

fabricated steel Baseframe.

##### 8.2 COUPLING

rotor.

##### 8.3 ANTI-VIBRATION MOUNTING PADS

rotating assembly.

### 8.4 SAFETY GUARDS

Safety Guard protected for personnel protection.

### 9. FACTORY TESTS

dispatch.

### 10. EQUIPMENT FINISHING

durability.

### 11. DOCUMENTATIONS

Operation & Maintenance manual, Circuit wiring diagrams and with the Generator.

### 12. QUALITY STANDARDS

BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528.

### 13. WARRANTY

manufacturers warranty terms & conditions.

to change specifications without notice.



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